



CANCER ASSOCIATED NUCLEIC ACIDS
AND POLYPEPTIDES
Old et al.
Serial No.: 09/462,929
Docket No.: L00461/70078/JRV

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NY-LU-12 KEESSPPPKVNPPLIGLCEYGGSDYEEEEEEQTPPPPQPRTAQQPKREEQTKKENEEDKLTDWNKLAACLLCRRQFPNKEVL 970
LUCA15 PELVRNGDEENPLIKRGLIVAAYSGDSDNEE.....ELVERLESEEKLADEWKKMAMCLLCRRQFPNKAAL 662
DXS8237E DLPLKASSDDDRSPRGLIVAAYSGESDSEE.....EQERGGPEREKLTIDWQKLAACLLCRRQFPNSKEAL 233

NY-LU-12 IKHQQLSDLPKQNLIEHRKTKQSEQELAYLERRERE. GKFKGGRGNDRREKLQSFDSPERKRIKYSSRETDS..DRKLVDKEDID 1050
LUCA15 VRHQQLSDLHKQNMIDYRRSRRLSEQELEALELERRERE. MKYRDRAAERREKYGIPPEPKRKQFDAGTV..NYEOOPTKDGDID 742
DXS8237E IRHQQLSGLHLHKQNLIEHRRAHLSENTEALEKNDMEQMKYRDRAAERREKYGIPPEPKRKYGGISTASVDFEQPTTRDGGLG 316

NY-LU-12 TSSKGCCVQQATGWRKGKGTGLGYGHPGLASSEEAEGRMRGPSSVGASGRTSKRQSNETYRDAVRRVMARYKELD 1123
LUCA15 HSNIGNKMLQAMGWREGSGLGRKQCQGITAPIEAQVRLKGAGLGAKGSAYGLSGADSYKDAVRKAMFARFIEME 815
DXS8237E SDNIGSRMLQAMGWREGSGLGRKKQGIVTPIEAQTRVRGSGLARGSSYGVISTESTSYKETLHKTMTVRNEAQ 389

Fig. 1



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	AAGGAGGGCGGGCTGGAGGCTTAGGTACTGCTAAACCAAGAATTGGTATAAGGATTACTTGTGGCCCTCTGTATAAAAAGA	100
1	GATGTGGGGGATTCTGGACCTGGCTAACAGAACTGGCACCTTTCGTTGGAGGCCAAGAAAGAACGGTTGCTCCGGGTGGAAACAGGGATTATCCTCCCT	200
34	CCCCCTTAAGGCTCAAGAGAGACACTCTGGCAACTTTCCTGGAGAGATTCACTTCCCTTGATTTCAGGGCATTCGGGCCTCCTTGGCAA	300
67	ATGTTAGGGAGCTTCTTCAGCTATGGAGCTAGAGACGGGACATGGTGAACATGATTTCAGGGGGAGGAGATT	400
101	TTCGTCCTTCGATTTCAGAGAGATTCACTCACAGTTGACTTCAGGGTAGGGCACTACATTCTGGGATAGAGAAGGGACCATGATG	500
134	GACTATAGGGGTGGAGAGGGTACTCTATGGATTATAAGGGTAGGGGACCTCTATCAACTACAGAGACAGGGATGCTACGGCTCTTGACTTCAGAG	600
167	GTTAGGGATGCTCCCATCTGACTTCAGGGGGGGGACTTGTGATTGTTAGGGATTGACTCCATGGCAGATTGACTTTAGGGGAAGGGATT	700
201	ATCAGATTTCGATTITAGGGCCAGAGAACAGTCAGTCAGGGGATCTAGGATTAGAGATGTATCTGATTGTTAGAGACAAGACIAAGTA	800
234	GACTTATAGGGCCAGGGTTAGGTACTACTGATCTAGACTTGTGGGAGGGATAACCCACATTCAAGATTTCAGGGTAGACGGATCTAGGACTGATC	900
267	AGGATTTTAGGGGAGAGAGATGGGAGATGGGAAATTAAAGATAAGGAGATGGGAGATGGGAGATGGGAGATGGGATTACATTTCAGCCCTCTAC	1000
301	ACAAGGATAGAGAACATTCTGGTATGATGTGAACAGGAGAGAACATCCACACGACCATACTAGATAAGGGCTTGCTTTGGCATTAGAAGGGAGAA	1100

Fig. 2-1

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334 TTTGAGCATTCAAAACAAGGAAGAACACAGGAGTAGCTTGTAGGCTTCAGACATGAGTCTCCAGGAGACTTTCAGAACAGCCAAAGTCCAGTTCAAGACC 1200
F E H S E T R K G E T G G V A F E H E S P A D F Q N S Q S P V Q D
367 AGATAAGTCACAGCTTCTGGACGTGAAGAGCAGTTCAAGATGGCTGGTCAGATGGCTGGTCTGGACTTTCTGGGGGGCAAGACACCGA 1300
Q D K S Q L S G R K K Q S S D A G L F K E E G G L D F A G R Q D T D
401 TTACAGAAAGCATGGAGTACCGGTATGGCTGCCAGGAAGCCAGATGTTGGCTATGGCCAGAGGAAAGTCTTCCAGAGGGCAAACGTGCC 1400
Y R S N F Y R D V D H R L P G S Q N F G Y G Q S K S F P E G K T A
434 CGAGATGCCCAACGGGACCTTCAGGATCAAGATTATAGGACCGCCCAAGTGGAGGACAAACCCAGGAGCTTATTGCTGATTAAAGTGGGGTACCTGAAAGATG 1500
R D A Q R D L Q D T R T G P S E K K P S R L I R L S G V P K D
467 CCACAAAAGAAGGATTCTTAATGCTTTTCGGACTCTGTATGGCATGCCTGTAAGAAACCTTGCAAGGAGTATAACACAGGTTACCGTACTATGGCTA 1600
A T K E E I R N A F R T P D G M P V K R L Q L K E Y N T G Y D Y G Y
1659 TCTCTGGCTGGAGTTTCACCTCTGGAAAGATGCCATCGGATGGCATCGGCTAACCGCCAACCTCTAAATGATCAGGACAAAGAACAGTACCCGGATAT 1700
501 GTATCAAGCCTGGATTTTGGTACTGCAAACATCTACCTACCCATTGGCTAGAAACATGGATCTGGCACCGATCTCTGGTCATCTGCAAGAACAGAAGTGCACAG 1800
V C V E F S L L E D A I G C M E A N Q G T L II Q D K E V T L E Y
534 AGGCCAAGCAAGAATTAACTACCTACCCATTGGCCTAGAAACATCCATACCCAGCACATTGGCAACCCAAACGGCCCAACCAGCCCTAACGGCTGATAA 1900
E A K Q E L I T Y P Q K T S I P A P L E K Q P N Q P L R P A D K
567 GGAAACTGAAACCCAGGAAGAGGGAAAGAAGGTCAAGGTCTAGGACATCAAAGAGAGAAAGGAAAGGTATCTGCTCTCTCTGAAAGGGAAAGGG 2000
E P E P R K R E E G Q E S R L G H Q K R E A E R Y L P P S R R E G
601 CCAACTTTCGAAAGAGACCGAGAGGGAGGTCTGGAGAGACACGCCAGGATGGAGAGGAAACTATCATGCTAAAGCCTATCTATCGTTCCA 2100
P F R R D R F R E S W N G E T R Q D G E S K T I M L K R I Y R S
634 CACCACTGAGGTGATAGTGGAAAGTGGCTGGAGCCCTATGTCGGCTTACTACTGCCAACGTCGGTATCATCAAGAACAGAACAGGGCCTATGGGCATAC 2200
T P P E V I V E V L E P Y V R L T A N V R I I K N R T G P M G H T

Fig. 2-2



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701	Y G F I D L D S H V E A L R V V K I L Q N L D P P F S I D G K M V	CTATGGCTTTATTGACCTCGACTCCCATGTGGAAGCTCTCGTGTGCTTAACAGAACCTGATCCGCCATTAGCATTTGATGGGAAGATGGTA	2300
734	A V N L A T G K R R N D S G D H S D M H Y Y Q G K K Y F R D R R	GCTGTAACCTGGCACTGGAAAACGAAGAAATGATTCGCGAACCATCTGACCACATGCATTACTATCAGGGTAAAAAATTTCCGAGATAGGGGG	2400
767	G G G R N S D W S S D T N R Q G Q S S D C Y I Y D S A S G Y Y Y	GAGGTGGCAGAAATTAGACTGGTCTTCAGATAAAATCGACAGACAACAGTCATCATCTGAGTGTACATATGATTCTGCTAGTGGCTACTATTA	2500
801	D P L A G T Y D P N T Q Q E V V P Q D P G L P E E I E E L	VGACCCCTGGCAGGAACCTTATTGACCCCCAATACCCAGCAAGAACGTTAAAGAGATGGCTATGTGCCGCCAGGATCCUTGGATTACCTGAGGAAGAGACATCAAGGAAAAA	2600
834	K P T S Q G K S S K E M S K R D G K E K K D R G V T R F Q E N	AAACCCACAGTCAGGAAAGTCAGTAGCAAGAACGGAATATGCTTAAGAGATGGCAAGGAAAGAACAGAGGAGTACCGAGGTTTCAGGAAATTC	2700
867	A S E G K A P A E D V F L K P L F P T V K K E E S P P ? P K V V H I	CCAGTGAGGGAGGGCCCTGGAGAACAGTGTCTTAAGAACGCTCCTACTGTGAAGAACAGGAAGAGAGATGCCCCCTCCACCTAAAGTGGTAAMACC	2800
901	L I G L L G E Y G G D S D Y E E Q T P P P Q P R T A Q P	ACTGATCGGCCTCTGGCTGAATAAGCAGGAGACAGTCACTATGAGGAGGAAGAGGAGGAACAGACCCCTCCCCCACAGCCCCCACAGCACGCC	2900
934	Q K R E E Q T K K E M E D K L T D W N K L A C L L C R R Q F P N	CAGAAGCGAGGGAGAACCAAGAACGAGAACACTCACTGACTGGATAAAACTGGCTTGCTTGAGGAAGGCAAGGCAAGTTCCCAAATA	3000
967	K E V L I K R Q Q L S D L H K Q N L E I H R K I K Q S E Q E L A Y L	AAGAAGTTCTGATCAACACAGGAGCTCTGAGACTCTGACAGCAAACCTGGAAATTCCACGGGAAGATAAAACAGTCTGAGCAGGCTAGCCATCT	3100
1001	E R R E R E G K F E G R D D R R E K L Q S F D S P E R K R I K Y	GGAAAGGAGAGAACGAGGGAAAGTTAACGAAGGAAATCATCCCAAGGGAAAAGCTCCAGTCTTCAGAAAGGAAACGGATTAAAGTAC	3200

Fig. 2-3



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Fig. 2-4

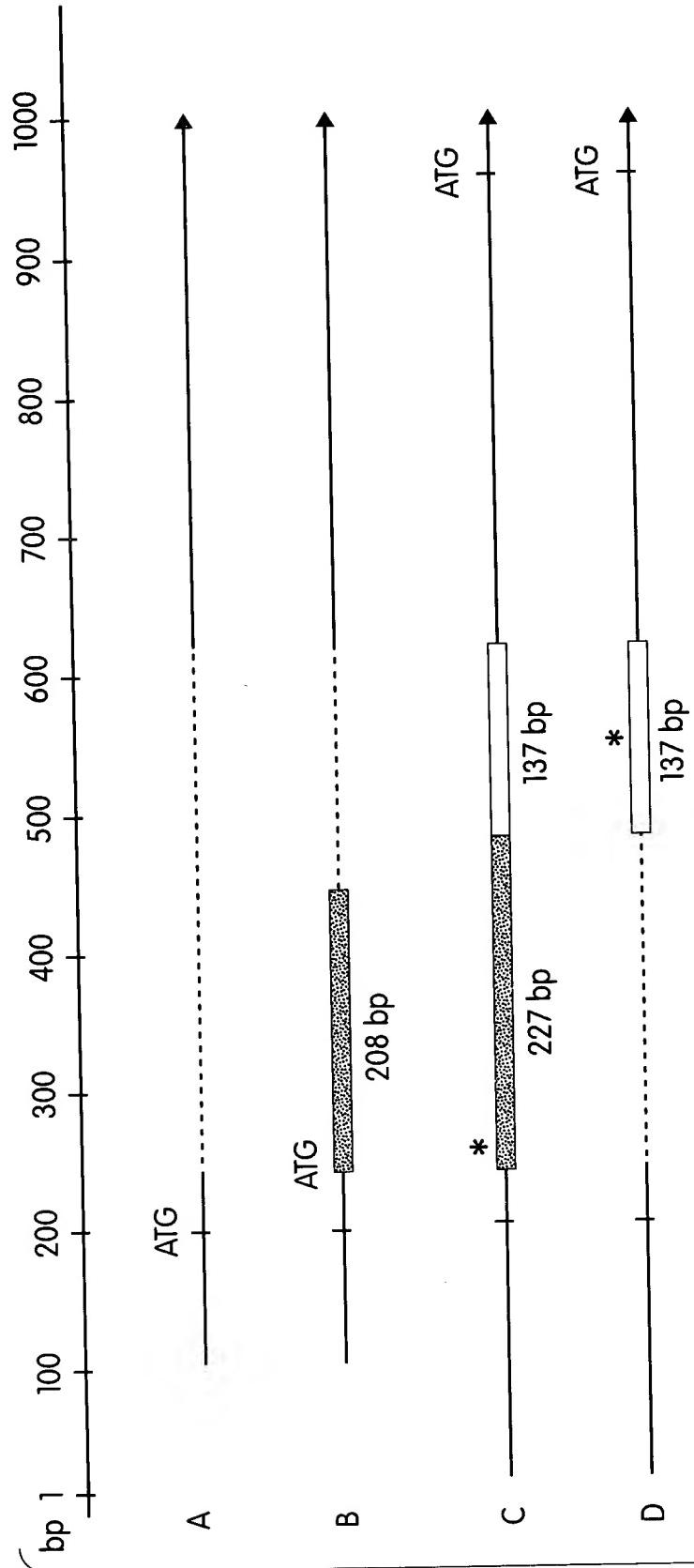


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TRANSCRIPT VARIANT B

AAGGGAGCCGCCCTGGAGGCTTGC CGCCTAGGTACTGCTATAACCAATTGGTATAAAAGGATTTACTTGTCGGCCCTTGTAAAGAGATGTGGGGATTCCTCGAC 120 (120)
 CTGCTAACAGAACCTGAACTTTCGAGATGGCTTTCGCGCTGGCTGGCTCTGGACTCTGTACCTGACCTCAAAGTGAATCCAACCTCTGGCTTCCCACAGTGGACTATAGCT 240 (145)
 V S H R T C H L D W Q S A E F Y V L N A T D V L I H C S E A W S S N E X F S G S
 145 M A E R R V S R A G L T G L L T S S D P P T S A S Q S A G T I G
 GTGAGCCGCCGACCTGCCATTGGCAATCTGCCAAGTATTAAATGCAAGATGTCTCATTCATTTGCTGAGCTTCAATGAAAAATTAGGGAGCT 360 (152)
 CAAAGAGAAGCTTGGCTCCGGCTGG.
 Q E F R F A P G W . .

Fig. 3A



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227bp exon:
GACTGGGTAAAGCTTTTCTGCAGCAGTCATGTTAAAAACCTTGACTTGTGTTGACTTCCCTCGTGTTCCTGAAACTAAC
AGAACTGGACCTTTGGACTGGGTGAAGCTTCTGCAGTCATGTTGAAAACCTTGTTGACTTGTGTTGACTTCTGCAAG
CGTGTCTGAAATGGGAGCATAAAAGTTACTCCGCCACTTGTCTAAATAGCAAACCTTGTCTGCTTCTGCAG

137bp exon:
ATCTAGGACCTGTTACAGAACCTCTGCCAAAAAAATGTTACAGAAGAAATGTTGCTGTGATTAGAGAAGAATA
TGCTGGTGTAGATTCAAACCTCTGGACAATATGAATAACACTGTCTTGTACAG

Fig. 3B



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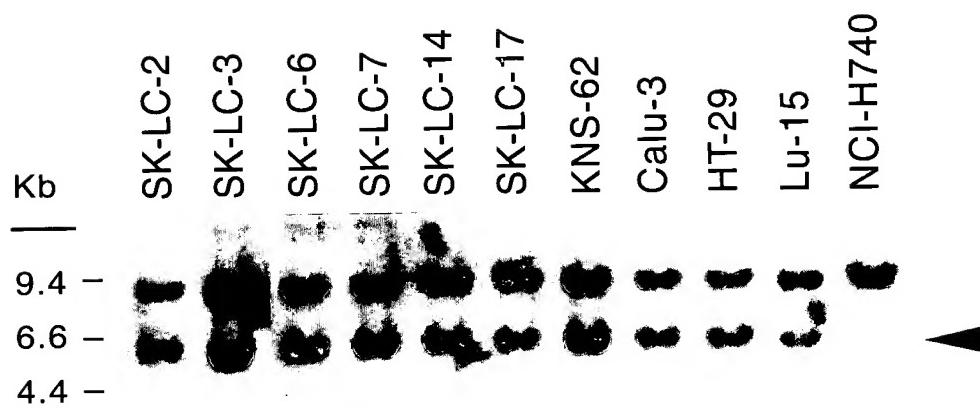


Fig. 4



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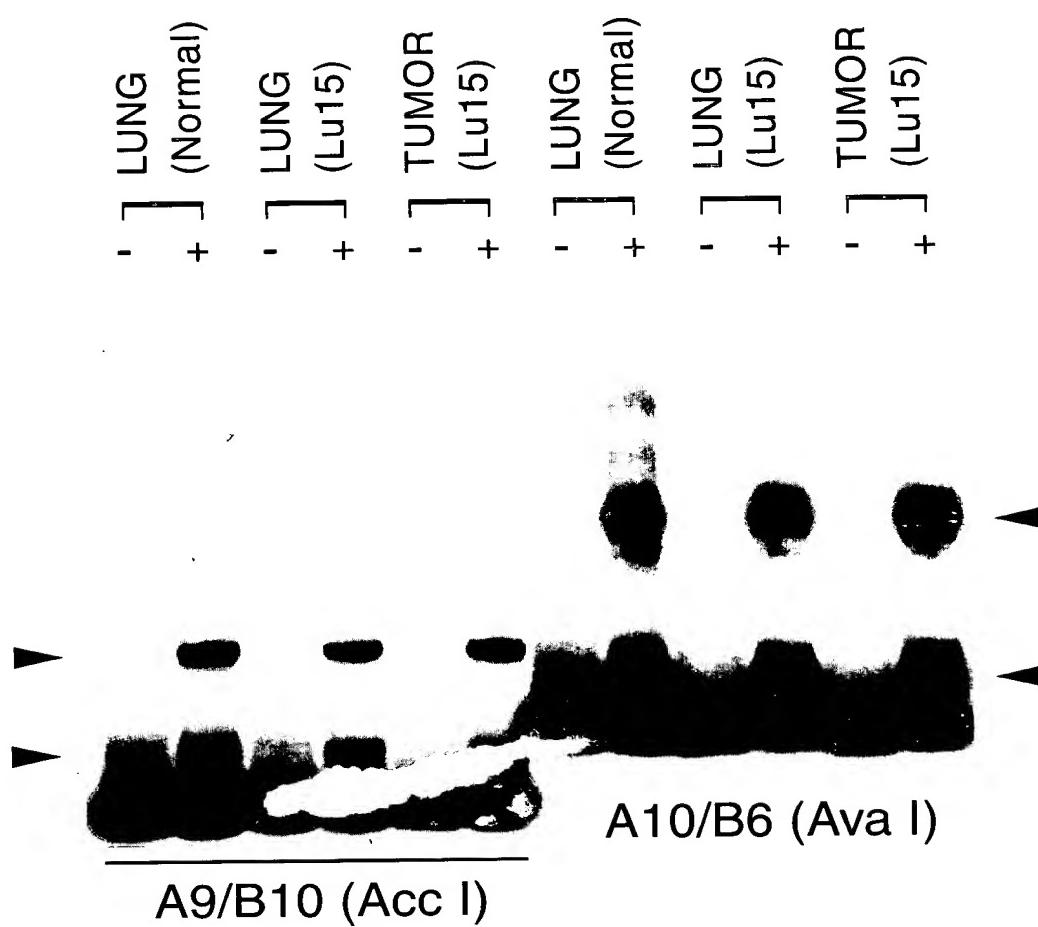


Fig. 5